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(72) Inventors; and

(75) Inventors/Applicants (for US only): VON DER KAMMER, Heinz [DE/DE]; Verbindungsstr. 6d, 22607 Hamburg (DE). POHLNER, Johannes [DE/DE]; Quitztenweg 11, 22175 Hamburg (DE). HESTERKAMP, Thomas [DE/DE]; Nordhäuser Weg 18, 22455 Hamburg (DE). EBNETH, Andreas [DE/DE]; Aschhooptwiete 30F, 25421 Pinneberg (DE). ✓

(74) Agents: MEYERS, Hans-Wilhelm et al.; P.O. Box 10 22 41, 50462 Cologne (DE).

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(54) Title: DIAGNOSTIC AND THERAPEUTIC USE OF THE HUMAN DAX- 1 GENE AND PROTEIN FOR NEURODEGENERATIVE DISEASES ✓

(57) Abstract: The present invention discloses the differential expression of a cytosolic sulfotransferase in specific brain regions of Alzheimer's disease patients. Based on this finding, this invention provides a method for diagnosing or prognosticating a neurodegenerative disease, in particular Alzheimer's disease, in a subject, or for determining whether a subject is at increased risk of developing such a disease. Furthermore, this invention provides therapeutic and prophylactic methods for treating or preventing Alzheimer's disease and related neurodegenerative disorders using a gene coding for DAX-1. A method of screening for modulating agents of neurodegenerative diseases and recombinant animal models are also disclosed.